

## **Abstract**

### **GENERATING A WAVEFORM HAVING ONE SIGNAL LEVEL PERIODICALLY AND DIFFERENT SIGNAL LEVELS IN OTHER DURATIONS**

Generating a waveform having one signal level periodically and different signal levels  
5 in other durations. Two input signals are received, one having a desired constant level and  
another having desired signal levels. The desired output waveform is generated by selecting  
one of the two input signals. As a result, the output waveform may be generated to have  
(transitions) with high frequency even if the signal levels between adjacent portions are  
substantially different. Such waveforms are useful to test CDS (correlated double sampling)  
10 samplers.